## IN THE CLAIMS:

Please cancel Claims 1 to 59 without prejudice or disclaimer of subject matter. Please add new Claims 60 to 72 as shown below. The claims, as pending in the subject application, read as follows:

1 to 59. (Cancelled)

60. (New) A processing apparatus comprising:

a chamber accommodating a processing portion;

an exhaust gas line, connected to said chamber, for exhausting ambient gas in said chamber;

a vacuum pump, connected to said exhaust has line, for compressing the ambient gas;

a supply line for supplying the compressed ambient gas into said chamber; a high pressure gas supply line branched out of said supply line; and a compressor, provided in said high pressure gas supply line, for further compressing the ambient gas compressed by said vacuum pump.

61. (New) The apparatus according to Claim 60, further comprising a stage provided in said chamber, and a hydrostatic bearing for movably guiding said stage, wherein said high pressure gas supply line supplies the ambient gas to said hydrostatic bearing.

- 62. (New) The apparatus according to Claim 60, further comprising a pressure sensor for detecting a pressure in said chamber, and a controller for controlling a pressure in said chamber on the basis of an output of said pressure sensor.
- 63. (New) An exposure apparatus comprising a processing apparatus as defined in Claim 60, a stage for positioning a substrate to be exposed in said processing apparatus, and a laser interferometer for detecting a position of said stage.
- 64. (New) A device manufacturing method comprising a step of applying a photosensitive material on a substrate, and a step of exposing a substrate by the apparatus as defined in Claim 63, and a step of developing the substrate thus exposed.
  - 65. (New) A processing apparatus comprising: a chamber;

an exhaust gas line, connected with said chamber, for exhausting a gas from said chamber;

a gas supply line, connected with said chamber, for supplying an ambient gas having a first pressure into said chamber; and

a high pressure gas supply line, connected with said chamber, for supplying an ambient gas having a second pressure higher than the first pressure into said chamber.

- 66. (New) An apparatus according to Claim 65, further comprising a pressure control device for maintaining a pressure in said chamber at a substantially constant level.
- 67. (New) An apparatus according to Claim 65, wherein said exhaust gas line is connected with said high pressure gas supply line.
- 68. (New) An apparatus according to Claim 65, wherein said exhaust gas line is connected with said high pressure gas supply line.
- 69. (New) An apparatus according to Claim 65, wherein the ambient gas is helium gas.
  - 70. (New) An exposure apparatus comprising: an apparatus as defined in Claim 65, wherein a substrate is exposed to light in said chamber.
  - 71. (New) An apparatus according to Claim 70, wherein the light is x-ray.
- 72. (New) A device manufacturing method comprising:

  a step of exposing a substrate to light using an apparatus as defined in Claim

  70; and

a step of developing the substrate having been exposed to the light by said exposing step.